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FOREST PRODUCTS LABORATORY LIST OF PUBLICATIONS ON WOOD PRESERVATION

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FOREST PRODUCTS LABORATORY LIST OF PUBLICATIONS ON WOOD PRESERVATION SUBJECTS[1]

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This list includes publications that give general information and the results of research by the Forest Products Laboratory on preservative materials, methods of application, durability and service records of treated and untreated wood in various forms.

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[1] This list was previously issued as Forest Products Laboratory Report No. 704 under the same title.

INSTRUCTIONS FOR OBTAINING PUBLICATIONS

Publications not available for distribution at this Laboratory are marked with an asterisk (*).

Single copies of technical notes, reprints, and processed reports may be obtained free upon request from the Director, Forest Products Laboratory, Madison, Wis. 53705.

Federal Government bulletins, circulars, and leaflets, if not available for free distribution at this Laboratory, may be purchased at the price indicated from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402. Send money order, draft, or cash; stamps or personal checks are not accepted.

Trade journals containing articles herein listed may be purchased from the publishers or consulted in various libraries.

The Forest Products Laboratory reserves the right to furnish only those publications which in its judgment will give the information requested. Blanket requests or requests for a large number of copies of any individual article will not be filled except in unusual cases.

Title	Author	Publication and Date
DETERIORATION		
Chemical		
Wood in chemical engineering construction.	Baechler, R. H.	Preprint Forest Prod. Res. Soc. 8th Ann. Nat. Meeting, Grand Rapids, Mich., May 1954.
Decay and Durability		
Comparative decay resistance of heartwood of native species.	Forest Products Laboratory	U.S. Forest Serv. Res. Note FPL-0153. 1967.
Factors influencing decay of untreated wood.	Forest Products Laboratory	U.S. Forest Serv. Res. Note FPL-0154. 1967.
Observations on wood protection research in Europe.	Scheffer, T. C.	Forest Prod. J. 14(2):95-96. Feb. 1964.
Prevention and control of decay in dwellings.		FPL Tech. Note No. 251. Reissued 1962.
Causes and prevention of decay of wood in cooling towers.	Baechler, R. H., Blew, J. O., & Duncan, C. G.	Amer. Soc. of Mech. Eng. Pub. 61-PET-5, Sept. 1961.
Comparative decay resistance of heartwood of different native species when used under conditions that favor decay.		FPL Tech. Note No. 229. Rev. 1961.
Decay resistance and dimensional stability of five modified woods.	Stamm, A. J., & Baechler, R. H.	Forest Prod. J. 10(1):22-26. Jan. 1960.

Title	Author	Publication and Date
DETERIORATION--(Continued)		
Decay and Durability--(Continued)		
Decay resistance of bald-cypress heartwood.	Campbell, R. N., & Clark, J. W.	Forest Prod. J. 10(5):250-253. May 1960.
Comparative durability of green and seasoned timber.		FPL Tech. Note No. F-33. Reissued 1958.
Comparative value of timber cut from live and dead trees		FPL Tech. Note No. 101. Reissued 1958.
Effect of time of cutting timber on its durability.		FPL Tech. Note No. F-15. Reissued 1958.
Comparative decay resistance of some common pines, hemlock, spruce, and true fir.	Clark, Joe W.	Forest Science 3(4): 314-320. Dec. 1957.
*A partial list of fungi associated with decay of wood products in the United States.	Cowling, E. B.	Plant Disease Reporter 41(10):894-896. Oct. 15, 1957.
Decay resistance of western redcedar.	Scheffer, T. C.	J. of Forestry 55(6): 434-442. June 1957.
Decay and toughness losses in southern pine infected by peniophora.	Lindgren, R. M., & Erickson, E. C. O.	Forest Prod. J. 6(6): 201-204. June 1957.

*Not available at Forest Products Laboratory.

Title	Author	Publication and Date
DETERIORATION--(Continued)		
Decay and Durability--(Continued)		
Protection from wood-destroying organisms (mold, stain, decay).		Separate from the Forest Products Laboratory's "Wood Handbook." USDA Handb. No. 72, Sup. of Doc., Washington, D.C. 20402. $2.25.
*Tests of decay resistance of four western pole species.	Scheffer, Theodore C. & Englerth, George H.	J. Forestry 58(3): 556-561. 1955.
Differences between heartwood and sapwood.		FPL Tech. Note No. 189. Reissued 1952.
*A study of timber decay in the Crucible mine of the Crucible Fuel Company.	Maize, E. R., Scheffer, T. C., & Greenwald, H. P.	Bur. of Mines, Rep. Invest. 3544, 17 pp., illus. Jan. 1941.
*Defects in crossties caused by fungi.	Richards, C. Audrey	Cross Tie Bull. 19: 3-31. Mar. 1938.
*Decay of poles and fungi which cause it.	Humphrey, C. J.	Rep. of special committee on wood preservation. Amer. Elec. Ry. Eng. Assn., 312 Appendix A, pp. 52-63. 1923.
Heat		
*Effect of oven heating and hot pressing on strength properties of wood.	MacLean, J. D.	American Wood-Preservers' Association Proceedings. 1955.

*Not available at Forest Products Laboratory.

Title	Author	Publication and Date
	DETERIORATION--(Continued)	
	Heat--(Continued)	
Effect of heating in water on the strength properties of wood.	MacLean, J. D.	AWPA Proc. 1954.
*Effect of steaming on the strength of wood.	MacLean, J. D.	AWPA Proc. 1953.
*Effect of temperature on the dimensions of green wood.	MacLean, J. D.	AWPA Proc. 1952.
*Rate of disintegration of wood under different heating conditions.	MacLean, J. D.	AWPA Proc. 1951.
*Rate of temperature change in short-length round timbers.	MacLean, J. D.	Trans. Amer. Soc. Mech. Engr. 68(1): 1-16. Jan. 1946.
	Marine Borers	
Results of experiments on the effectiveness of various preservatives in protecting wood against marine-borer attack.	MacLean, J. D.	FPL Rep. No. 1773. 1949. +1965.

*Not available at Forest Products Laboratory.
+Information reviewed and reaffirmed.

Title	Author	Publication and Date
HEAT CONDUCTION STUDIES RELATING TO WOOD PRESERVATION		
Temperatures necessary to kill fungi in wood.		FPL Tech. Note No. 259. 1956.
*Effect of oven heating and hot pressing on strength properties of wood.	MacLean, J. D.	AWPA Proc. 1955.
*Studies of heat conduction in wood. Pt. 1. Results of steaming green round southern pine timber.	MacLean, J. D.	AWPA Proc. 1930.
Pt. 2. Results of steaming green sawed southern pine timber.	MacLean, J. D.	AWPA Proc. 1932.
PRESERVATIVES		
Application Methods		
Preservative retention and distribution in several western conifers.	Blew, J. O., Roth, H. G., & Davidson, H. L.	AWPA Proc. 1965.
Preservative treatment of wood for farm use.	Blew, J. O.	U.S. Forest Serv. Res. Note FPL-085. 1965.
Retention and distribution of creosote in redwood lumber treated at three levels of moisture content.	Blew, J. O., & Roth, H. G.	AWPA Proc. 1965.
Some companies that design or build wood-preserving plants.	Forest Products Laboratory	FPL 65-025. 1965.

*Not available at Forest Products Laboratory.

Title	Author	Publication and Date
	PRESERVATIVES--(Continued)	
	Application Methods--(Continued)	
The double-diffusion method of treating wood: a review of studies.	Baechler, R. H., & Roth, H. G.	Forest Prod. J. 14(4): 171-178. Apr. 1964.
How to treat fence posts by double diffusion.	Baechler, R. H.	U.S. Forest Serv. Res. Note FPL-013. 1963.
The osmose preservatives and processes.	Forest Products Laboratory	FPL 63-015. 1963.
Tire-tube method of fence post treatment.	Wirka, R. M.	FPL Rep. No. 1158. Rev. 1962.
When preservative treatment of wood is an economy.		FPL Tech. Note No. 165. Rev. 1962.
Treatment of Hawaiian grown wood posts by the double-diffusion wood preservation process.	Smith, Harvey H., & Baechler, Roy H.	Pacific Southwest Forest Exp. Sta. Res. Note 187. Aug. 1961.
Oscillating pressure treatment of 10 U.S. woods.	Blew, J. O., Jr., Henriksson, S. T., & Hudson, M. S.	Forest Prod. J. 11(6): 275-282. June 1961.
Making log cabins endure.	Forest Products Laboratory	FPL Rep. No. 982. Rev. 1960.
The gluing of treated lumber.	Selbo, M. L.	AWPA Vol. 56. 1960.
Preservatives for wood pallets.	Blew, J. O.	FPL Rep. No. 2166. 1959. +1965.

+Information reviewed and reaffirmed.

Title	Author	Publication and Date
	PRESERVATIVES--(Continued)	
	Application Methods--(Continued)	
Treating hardwood posts by the double-diffusion method.	Baechler, R. H., Conway, E., & Roth, H. G.	Forest Prod. J. 9(7): 216-220. July 1959.
Improving wood's durability through chemical modification.	Baechler, R. H.	Forest Prod. J. 9(5):166-171. May 1959.
Preservative treatment of window sash and other millwork.	Browne, F. L.	FPL Rep. No. 919. +1958.
*Development and use of results-type specifications for pressure and non-pressure treatments--heavy retentions of creosote, piling.	Baechler, R. H.	AWPA Vol. 53:73-76. 1957.
Influence of fungus infection associated with chemi-peeling on pressure impregnation and cold soaking of jack pine posts.	Panek, Edward	Forest Prod. J. 7(4): 124. Apr. 1957.
Preservative treatment of jack pine and longleaf pine posts by the hot-and-cold bath and its boiling-in-water adaptation.	Panek, Edward	FPL Rep. No. 2085. 1957. +1963.

*Not available at Forest Products Laboratory.
+Information reviewed and reaffirmed.

Title	Author	Publication and Date
	PRESERVATIVES--(Continued)	
	Application Methods--(Continued)	
Condition of preservative treated field boxes after 5 years of outdoor exposure.	Kurtenacker, R. S. Scheffer, T. C., & Blew, J. O.	FPL Rep. No. 2054. 1956. +1963.
Preservative treatment of fence posts and farm timbers.	Blew, J. O., & Champion, F. J.	U.S. Dept. Agr. Farm. Bull. 2049. Slightly revised 1956. Reprinted 1964.
Exploratory tests to increase preservative penetration in spruce and aspen by mold infection.	Schulz, George	Forest Prod. J. 6(2): 77-80. Feb. 1956.
Newer preservative treatments for wood.	Baechler, R. H.	Applied Microbiology 4(5):229-232. Sept. 1956.
Study of the preservative treatment of lumber--A comparison of the results of treatment, by pressure and nonpressure processes, on end matched Douglas-fir and shortleaf pine lumber.	Blew, J. O.	FPL Rep. No. 2043. 1955. +1960.
Relations between gage retentions and amounts of creosote extractable from borings taken from treated pine poles.	Baechler, R. H.	AWPA Proc. 1954. pp. 113-121.
*Double diffusion treating of wood.	Baechler, R. H.	Chem. & Eng. News 32(43):4288. Oct. 25, 1954.

*Not available at Forest Products Laboratory.
+Information reviewed and reaffirmed.

Title	Author	Publication and Date
	PRESERVATIVES--(Continued)	
	Application Methods--(Continued)	
Production of preservative-treated laminated timbers.	Truax, T. R., Blew, J. O., & Selbo, M. L.	AWPA Proc. 1953.
*Protecting wood from decay and fire.	Hunt, G. M.	Arch. Record. Dec. 1953.
Effects of treating variables on absorption and distribution of chemicals in pine posts treated by double diffusion.	Baechler, R. H.	J. Forest Prod. Res. Soc. 3(5):170-176. Dec. 1953.
Preservative treatment of wood by pressure methods.	MacLean, J. D.	USDA Handb. 40. 1952.
Permeability of southern pine as affected by mold and other fungus infection.	Lindgren, R. M.	AWPA Vol. 48, p. 158. 1952.
*Treatability of southern yellow pine as influenced by fungus infection.	Blew, J. O.	Forest Prod. Res. Soc. J. 2(3):85-86. Sept. 1952.
*Factors that have an important bearing on the preservative treatment of round timbers.	MacLean, J. D.	AWPA Proc. 1950.
*The preservative treatment of aspen.	Kaufert, Frank	Aspen Rep. No. 19. Available at North Central Exp. Sta., St. Paul, Minn. 1948.

*Not available at Forest Products Laboratory.

Title	Author	Publication and Date

PRESERVATIVES--(Continued)

Application Methods--(Continued)

*Diffusion in wood.	Burr, H. K., & Stamm, A. J.	J. Phys. Chem. 51, 240. Jan. 1947.
*Passage of liquids, vapors and dissolved materials through softwoods.	Stamm, A. J.	USDA Tech. Bull. 929. 1946. Out of print.
Treating wood by the cold-soaking method.	Blew, J. O.	FPL Rep. No. 1445. 1944. Reprinted 1963.
*Determination of nickel and copper chromates and nickel, copper, and magnesium arsenates in treated wood.	Baechler, R. H., & Servais, Philip	AWPA Proc. 1942.
Determination of nickel and copper chromates and nickel, copper, and magnesium arsenates in treated wood.	Forest Products Laboratory	FPL Rep. No. 1260. 1941. +1960.
*Effect of blue stain on the penetration of liquids into air dry southern pine wood.	Lindgren, R. M., & Scheffer, T. C.	AWPA Proc. 1939, pp. 325-326.

Evaluation of Properties

Comparison of wood preservatives in Mississippi post study (progress report).	Blew, J. O., & Davidson, H. L.	U.S. Forest Serv. Res. Note FPL-01. 1967.
Comparison of wood preservatives in stake tests (progress report).	Blew, J. O.	U.S. Forest Serv. Res. Note FPL-02. 1967.

*Not available at Forest Products Laboratory.
+Information reviewed and reaffirmed.

Title	Author	Publication and Date

PRESERVATIVES--(Continued)

Evaluation of Properties--(Continued)

*Preservative treated slats after 5 years' exposure in a cooling tower.	Baechler, R. H., Bendtsen, B. Alan, & Roth, H. G.	Heating, Piping, and Air Conditioning 38(4):121-123, Apr. 1966.
Relation between distillation pattern of creosote and its effectiveness as determined by the soil-block method.	Baechler, R. H., & Gjovik, Lee R.	AWPA Proc. 1965.
Effects of various preservative treatments of field boxes on nail holding.	Scholten, John A.	U.S. Forest Serv. Res. Paper FPL 42. 1965.
Effects of wood preservatives on electrical moisture-meter readings.	Forest Products Laboratory	U.S. Forest Serv. Res. Note FPL-0106. 1965.
Results of soil-block tests on miscellaneous chemicals and materials.	Baechler, R. H.	AWPA Vol. 60:182-189. 1964.
Problems in production of clean treated wood.	Blew, J. O., & Panek, E.	AWPA Vol. 60. Apr. 1964.
Service records on treated and untreated fence posts.	Blew, J. O., & Kulp, J. W.	U.S. Forest Serv. Res. Note FPL-068. 1964.
Present status of results-type specifications for treated wood.	Baechler, R. H.	FPL Rep. No. 2260. 1962.
A review of articles on methods for determining arsenic, boron, chlorine, fluorine, and zinc in various materials.	Phillips, Lucia S., & Baechler, R. H.	FPL Rep. No. 2234. 1962.

*Not available at Forest Products Laboratory.

Title	Author	Publication and Date
	PRESERVATIVES--(Continued)	
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Studies on the assay of pressure-treated lumber.	Baechler, R. H., Blew, J. O., & Roth, H. G.	AWPA Vol. 58:21-33. 1962.
Effect of petroleum carrier on rate of loss of penta-chlorophenol from treated stakes.	Baechler, R. H., & Roth H. G.	Forest Prod. J. 12(4): 187-190. Apr. 1962.
Results of preservative treatment of Douglas-fir from different areas.	Blew, J. O., Jr.	AWPA Proc. 1961.
Effect of preservatives on block-shear values of laminated red oak over a 3-year period.	Selbo, M. L.	AWPA Vol. 55:155-164. 1959.
Studies of the methodology of soil-block testing.	Duncan, C. G.	FPL Rep. No. 2114. 1958. +1965.
*The relative preservative tolerances of 18 wood-destroying fungi.	Cowling, E. B.	Forest Prod. J. 7(10): 355-359. Oct. 1957.
An international termite exposure test.	Blew, J. O., & Johnston, H. R.	AWPA Proc. 1956 and 1957 (final report).
*ASTM--Standard method of soil-block testing.		Report of ASTM Comm. D-7. 1956.

*Not available at Forest Products Laboratory.
+Information reviewed and reaffirmed.

Title	Author	Publication and Date

PRESERVATIVES--(Continued)

Evaluation of Properties--(Continued)

*Effects of some preservative treatments on the flammability of wood.	Bruce, H. D.	AWPA Vol. 52, pp. 11-23. 1956.
Laboratory leaching and decay tests on pine and oak blocks treated with several preservative salts.	Baechler, R. H., & Roth, H. G.	AWPA Vol. 52, pp. 24-33. 1956.
*First report on tests of service life of poles in REA-financed electric systems.	Kulp, J. W., & Blew, J. O.	Rural Electrification Administration Bull. 169-29. May 1955.
Same. Second report.	Kulp, J. W.	REA Bull. 169-32. Feb. 1957.
Some experiences of the Forest Service with treated wood.	Blew, J. O.	AWPA Proc. 1955, p. 251.
Relations between gage retentions and amounts of creosote extractable from borings taken from treated pine poles.	Baechler, R. H.	AWPA Proc. 1954, pp. 113-121.
Toxicity of various fractions of low-temperature coal-tar creosote.	Baechler, R. H.	AWPA Proc. 1953.
Determining penetration of wood preservatives.		FPL Tech. Note No. 163. Rev. 1952.

*Not available at Forest Products Laboratory.

Title	Author	Publication and Date
	PRESERVATIVES--(Continued)	
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Evaluating wood preservatives.	Blew, J. O., Richards, C. A., & Baechler, R. H.	Forest Prod. Res. Soc. Proc. 1951.
Naval stores and derivatives as wood preservatives.	Baechler, R. H.	South. Lbrmn. 183 (2297):160-162. Dec. 15, 1951.
*Reports of preservatives committees.	Baechler, R. H., et al.	Prepared for annual meeting of AWPA. Apr. 1951-52-53.

Evaluating wood preservatives by soil-block tests

1. Effect of the carrier on pentachlorophenol solutions.
2. Comparison of a coal-tar creosote, a petroleum containing pentachlorophenol or copper naphthenate and mixtures of them.
3. The effect of mixing a coal-tar creosote and a pentachlorophenol solution with a petroleum; a creosote with a coke-oven tar or pentachlorophenol solution.
4. Creosotes.
5. Lignite-tar and oil-tar creosotes.
6. Exploratory tests toward improving the method.
7. Progress on the development of a laboratory weathering method.
8. Low temperature coal-tar creosote.
9. Influence of different boiling fractions of the petroleum carrier on the effectiveness of pentachlorophenol and copper naphthenate.
10. Effect of species of wood on preservative threshold values.

Series published in AWPA Proc. 1950-1958, by Catherine G. Duncan.

The durability of birch plywood treated with wood preservatives and fire-retarding chemicals.	Blew, J. O., & Olson, W. Z.	AWPA Proc. 1950.

*Not available at Forest Products Laboratory.

Title	Author	Publication and Date
	PRESERVATIVES--(Continued)	
	Evaluation of Properties--(Continued)	
*Corrosion of metal fastenings in zinc chloride-treated-wood after 20 years.	Baechler, R. H.	AWPA Proc. 1949.
Results of experiments on the effectiveness of various preservatives in protecting wood against marine-borer attack.	MacLean, J. D.	FPL Rep. No. 1773. 1949. +1965.
The toxicity of preservative oils before and after artificial aging.	Baechler, R. H.	AWPA Proc. 1949.
Post service records: Report of Committee U-5 (Committee 7-9 prior to 1948).		AWPA Proc. annually.
Service tests on posts as a means of evaluating wood preservatives and methods of treatment.	Blew, J. O.	FPL Rep. No. 1726. 1948. +1962.
*An international termite exposure test.	Hunt, G. M., & Snyder, T. E.	AWPA Proc. 1947, 1948, 1949, 1952.
*Laboratory methods for evaluating wood preservatives: Preliminary comparison of agar and soil culture techniques using impregnated wood blocks.	Richards, C. A., & Addoms, R. M.	AWPA Proc. 1947.

*Not available at Forest Products Laboratory.
+Information reviewed and reaffirmed.

Title	Author	Publication and Date
	PRESERVATIVES--(Continued)	
	Evaluation of Properties--(Continued)	
Relations between the chemical constitution and toxicity of aliphatic compounds.	Baechler, R. H.	AWPA Proc. 1947.
Experiments with preservatives for soybean glue and soybean-glued plywood.	Kaufert, F. H., & Blew, J. O.	FPL Rep. No. 1447. 1944. +1962.
*Oxidation of creosote: Its significance in timber treating operations.	Hudson, M. S., & Baechler, R. H.	AWPA Proc. 1940.
Toxicity of normal aliphatic alcohols, acids, and sodium salts.	Baechler, R. H.	AWPA Proc. 1939.
Some toxicity data and their practical significance.	Bateman, E., & Baechler, R. H.	FPL Rep. No. 1222. 1937. +1965.
*A relation between chemical constitution and toxicity.	Baechler, R. H., & Bateman, E.	AWPA Proc. 1936.
*Toxicity in relation to the position and number of chlorine atoms in certain chlorinated benzene derivatives.	Hatfield, Ira	AWPA Proc. 1935.

*Not available at Forest Products Laboratory.
+Information reviewed and reaffirmed.

Title	Author	Publication and Date

PRESERVATIVES--(Continued)

Evaluation of Properties--(Continued)

*A theory of the mechanism of the protection of wood by preservatives:

Pt. 1. A theory of the mechanism of protection of wood by preservatives, by E. Bateman. AWPA Proc. 16:251, 1920.

Pt. 2. Isolation of barren oil from coal-tar creosote and mathematical proof of the existence of solubility partition, by E. Bateman. AWPA Proc. 17:506, 1921.

Pt. 3. Experimental proof of the theory by means of the toxicity and solubility partition of a number of tar acids, by E. Bateman. AWPA Proc. 18:70, 1922.

Pt. 4. Experiments with hydrocarbons, by E. Bateman and C. Henningsen. AWPA Proc. 19:136, 1923.

Pt. 5. Further work on hydrocarbons, by E. Bateman and C. Henningsen. AWPA Proc. 20:33, 1924.

Pt. 6. Toxic principles of creosote, by E. Bateman and C. Henningsen. AWPA Proc. 21:22, 1925.

Pt. 7. Some experiments on the toxicity of inorganic salts, by E. Bateman and R. H. Baechler, AWPA 23:41, 1927.

Materials

Wood preservation statistics. Reported annually for the previous year.		Forest Service, USDA, in cooperation with the AWPA (Proc.)
Coal-tar creosote producers and dealers in the United States.	Forest Products Laboratory	WP-7. 1962.
Partial list of suppliers of pentachlorophenol wood preservatives.	Forest Products Laboratory	WP-50. 1960.

*Not available at Forest Products Laboratory.

Title	Author	Publication and Date

PRESERVATIVES--(Continued)

Materials--(Continued)

Partial list of producers and dealers of chemicals used in double-diffusion treatment of wood.	Forest Products Laboratory	WP-6. 1958.
Properties of a good wood preservative.		FPL Tech. Note No. 177. Reissued 1957.
Wood preservatives in the national emergency.	Hunt, G. M.	Forest Prod. Res. Soc. Proc. 1951.
*Water-repellent preservatives for wood.	Browne, F. L.	Arch. Rec. 105(3): 131-132, 174, illus., 1949.
*Preservatives for wood poles.	Blew, J. O.	Purchasing. Apr. 1946.
*Wood seats for stadiums.	Wirka, R. M.	Eng. News-Record. Apr. 30, 1931.

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Crossties

*Performance of treated oak.	Blew, J. O.	Cross Tie Bull. 47(3): 7-20. Mar. 1966.
*Improved performance of treated wood in railroad structures.	Blew, J. O.	AREA Bull. 586-812-824. June-July 1964.
*A half century of service testing crossties.	Blew, J. O.	AWPA Vol. 59. 1963.

*Not available at Forest Products Laboratory.

Title	Author	Publication and Date
	PRODUCTS--(Continued)	
	Crossties--(Continued)	
*Forest Products Laboratory research.	Blew, J. O.	Ry. Purchases & Stores 50(5):116-120. May 1957.
Poles, piling, and ties.		Separate from the FPL Wood Handbook. USDA Handbook No. 72. Supt. of Doc., Washington, D.C. 20402. $2.25.
Engelmann spruce and its preservative treatment for ties and mine timbers.	Wood, L. W., & Blew, J. O.	FPL Rep. No. 1944-3. 1953. +1960.
*Defects in crossties caused by fungi.	Richards, C. Audrey	Cross Tie Bull. Vol. 19, pp. 3-31. Mar. 1938.
*Comparative strength properties of wood for crossties.	Markwardt, L. J.	Cross Tie Bull. Nov. 1930; Ry. Eng. & Maintenance Jan. 1931.
*Preservative treatment of Engelmann spruce ties.	MacLean, J. D.	AWPA Proc. 1930, pp. 164-182.
Percentage renewals and average life of railway ties.	MacLean, J. D.	FPL Rep. No. 886. 1926. +1965.
*Percentage renewals and average life of railway ties.	MacLean, J. D.	Eng. News-Record Aug. 26, 1926; Cross Tie Bull. Sept. 1926.

*Not available at Forest Products Laboratory.
+Information reviewed and reaffirmed.

Title	Author	Publication and Date
	PRODUCTS--(Continued)	
	Lumber, Millwork, and Timbers	
Retention and distribution of creosote in redwood lumber treated at three levels of moisture content.	Blew, J. O., & Roth, H. G.	AWPA Proc. 1965.
Problems in production of clean treated wood.	Blew, J. O., & Panek, E.	AWPA Vol. 60. 1964.
Ten-year exposure to laminated beams treated with oilborne and water-borne preservatives.	Selbo, M. L.	Forest Prod. J. 14(11): 517-520. Nov. 1964.
Prevention and control of decay in dwellings.		FPL Tech. Note No. 251. Reissued 1962.
Studies on the assay of pressure-treated lumber.	Baechler, R. H., Blew, J. O., & Roth, H. G.	AWPA Vol. 58:21-33. 1962.
Effect of solvent on gluing of preservative treated red oaks, Douglas-fir, and southern pine.	Selbo, M. L.	AWPA Proc. 1961.
Making log cabins endure.	Forest Products Laboratory	FPL Rep. No. 982. Rev. 1960.
Summary of information on gluing of treated wood.	Selbo, M. L.	FPL Rep. No. 1789. Rev. 1959. +1965.
Preservative treatment of window sash and other millwork.	Browne, F. L.	FPL Rep. No. 919. +1958.

+Information reviewed and reaffirmed.

Title	Author	Publication and Date
	PRODUCTS--(Continued)	
	Lumber, Millwork, and Timbers--(Continued)	
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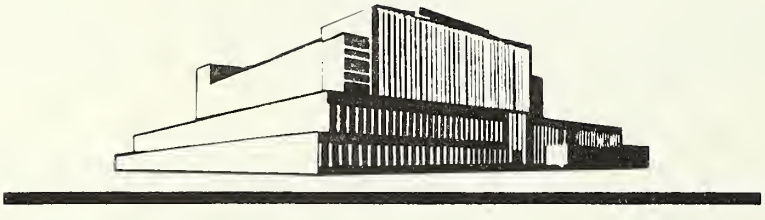
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